

DEPARTMENT OF VETERANS AFFAIRS, NATIONAL CEMETERY ADMINISTRATION
Oakland, California

SCHEDULE OF SERVICES:

Contract Line Item	Description	Quantity	Unit	Unit Price	Total Price
001	Replace the existing maintenance building storage shed and concrete foundations and slab at the San Francisco National Cemetery located at the Presidio of San Francisco, San Francisco, CA	1	Job	\$ _____	\$ _____

SCOPE OF WORK

Project Title: San Francisco National Cemetery Maintenance Building Storage Shed Replacement

GENERAL SCOPE OF WORK:

The Contractor shall furnish all labor, materials, equipment services to perform construction work to replace the existing storage shed in the maintenance area including the foundation and concrete slab floor of the storage shed at San Francisco National Cemetery (SFNC), located in the Presidio, San Francisco, CA. Construct in accordance with the VA Construction requirements, Federal, California and Local Codes requirements. Work includes, but not limited to demolition as necessary to remove the existing storage shed and foundations, installation of the new storage shed and foundations, and all repair, re-grading, vegetation replacement, etc. as required to the surrounding landscaping and repair of other items as specified herein.

Unless otherwise noted, all materials shall be new. Prior to installation, Contractor shall submit to the COR/MSN V Office, for approval (assume 2 week turnaround, typical), the manufacturer's literature and specifications on all the materials being installed.

All work will be coordinated with the Contracting Officer's Representative (COR). Work will be conducted in such a manner to minimize the impact on the Cemetery operations.

Site work will be accomplished between the hours of 8:00 and 4:30, Monday through Friday, except Federal Holidays.

All work will be coordinated with the Contracting Officer's Representative (COR) and with the Cemetery Director. Only the Contracting Officer (CO) has the authority to make changes to the contract that affects price and/or time.

Contracting Officer's Representative (COR):

Kathleen McCall
Cemetery Director
Department of Veterans Affairs
San Francisco and Golden Gate National Cemeteries
1300 Sneath Lane
San Bruno, CA 94066
TEL: (650) 589-7737
FAX: (650) 873-6578
Email: kathleen.mccall@va.gov

Cemetery Director:

Kathleen McCall
TEL: (650) 589-7737

The work in this project includes but not limited to:

Item 1: Storage Shed Replacement

1. Prior to the start of demolition, Contractor shall coordinate with the Cemetery Director and the Cemetery Grounds Maintenance Contractor to have all stored materials and equipment removed from the storage shed.
2. Contractor shall provide demolition work and removal of existing storage shed and concrete foundations, slab and curbing. Care shall be taken so the existing slab drain is not plugged with debris. New slab and curb shall connect to existing slab drain. See attached photo. Saw cut existing concrete as necessary for removal and to provide clean straight joints for the new concrete slabs.
3. Contractor shall remove existing chain link fencing attached to the existing structure and carefully store for future re-attachment to the new structure by the Contractor.
4. All debris shall be removed from the site at the end of each work day by the Contractor, at the Contractor's expense, including all dump fees. Debris shall not be allowed to accumulate at the site; debris shall be placed in debris bins and removed daily.
5. Contractor shall install new foundations for the Storage Shed in accordance with the manufacturer's guidance and meeting all local and applicable codes.
6. Concrete slab installation for a new area approximately 35' wide x 18' deep that includes the adjacent curbing. New slab shall slope to drain and match the existing slab height at the slope approach driveway in the front and the drain in the rear. Concrete shall be meet the following requirements:
 - a) **Subgrade in areas where tree roots are found:** Prepared smooth subgrade of uniform density. Large embedded objects such as boulders, rock greater than 1 inch and tree roots found in the subgrade shall be removed to a minimum depth of six (6) inches below the finished subgrade elevation and the space shall be backfilled with suitable material which shall be thoroughly compacted to 95% Standard Proctor density.

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- b) **Sub-base:** A layer of Class "2" sub-base material shall be placed on top of the prepared subgrade in a uniform depth of 6 inches and be compacted to 95% Standard Proctor density.
- c) **Concrete:** Concrete used in the construction of the slab shall be Class "A" concrete, Portland Cement Concrete, with the additional requirement that the amount of chert in crushed limestone aggregate not exceed two percent (2%) by weight.
- d) **Concrete Reinforcement:** Shed slab shall be 6 inches in depth with No. 4 rebar placed 12 inches on center in the upper portion of the sidewalk, at least 2 in. below the surface. At all contraction joints, only one half the reinforcing bar will span the joint. Nylon synthetic fibers will be added to the mix and have a length of one inch (+/- .25") and will be dosed at two pounds per cubic yard of concrete.
- e) **Forms:** The forms shall be of either metal or wood and shall be straight, free from warping, of sufficient strength to resist lateral pressure of the concrete and of a height of 3.5 inches. Forms shall be thoroughly cleaned, securely staked, braced and held to the required line and grade before any concrete is deposited. A form release agent should be applied to ease stripping.
- f) **Depositing Concrete:** The concrete shall be deposited between the forms on moistened sub-base and shall be struck off and compacted to the required thickness 4 inches.
- g) **Joints:**
 - **Expansion Joints:** Expansion joints consisting of 12mm (1/2 inch) thick compressible material the full depth of the concrete will be placed at 12 meter intervals along the sidewalk and wherever the sidewalk abuts another rigid structure. This includes junctions of sidewalks, curb, buildings or other similar members, as well as where a floor slab joins. Material must be highly resilient, and non-extruding in hot weather, or brittle in cold weather. All expansion joints will be sealed with an industry standard material. No. 4 rebar, 24" long shall equally span all expansion joints every 12" along the joint.
 - **Contraction Joints (dummy joints):** Contraction joints shall be tooled joints, (Not saw cut) 1 inch in depth at 2 meter intervals. Joints must be perpendicular to the edge and straight. Use of a straight edge, such as a one inch thick board, to serve as a guide is recommended in obtaining a straight-lint joint.
 - **Joint Sealant:** At the end of the curing period, expansion joints shall be cleaned and filled with cold-applied joint sealant. Joint sealant shall be gray or stone in color. The joint opening shall be thoroughly cleaned before the sealing material is placed. Sealing material shall not be spilled on exposed surfaces of the concrete. Concrete at the joint shall be surface dry and atmospheric and concrete temperatures shall be above 10 degrees C 50 degrees F at the time of application of joint sealing material. Excess material on exposed surfaces of the concrete shall be removed immediately and concrete surfaces cleaned.
- h) **Finishing:** After the concrete has been brought true to line and grade it shall be finished to match the existing driveway concrete at the San Francisco National Cemetery maintenance area storage shed. All edges shall be rounded with an edging tool to one-fourth (1/4) inch radius.
- i) **Curing:** Wet-curing or the application of a liquid membrane-forming curing compound is needed to ensure there is adequate moisture in the concrete while its strength is developing. Curing shall be initiated immediately after finishing. Concrete shall be protected against loss of moisture and rapid temperature changes for at least 7 days from the beginning of the curing operation.
- l) **Backfilling:** After the concrete has sufficiently set, the forms shall be removed and any space on side of walks shall be backfilled with suitable material. Areas shall be compacted and graded to blend in with the surrounding grade. Areas where turf was removed or damaged will be replaced with turf type tall fescue sod.

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- m) **Concrete Sealant:** At the end of the curing period, (2) two coats of an industry standard sealant shall be applied. Sealant shall be a Non-toxic, Non-hazardous and Non-flammable, water-based, fast drying, and penetrating concrete sealer. Sealant shall not contain any VOC's (Volatile Organic Compounds) or Solvents. Application of material shall be in accordance with the manufacturer's instructions. Coated surfaces shall be protected from vehicular and pedestrian traffic until dry.
 - n) **Contractor Damage:** Any subsequent damage by the contractor to existing curbs, buildings or other similar members shall be repaired at the contractor's expense. No patching of any contractor caused cracks or chips to curbs will be acceptable. The section of curb between contraction joints shall be replaced in full.
- 7. Contractor shall install the new pre-engineered and pre-manufactured three sided storage shed in accordance with the manufacturer's requirements.
 - 8. Orientation of the new committal shelter roof peak shall match the existing shed orientation.
 - 9. Finish painting of the shelter structure shall be with a rust inhibitive paint, 2 coats required. Two weeks prior to the scheduled painting, submit to the COR paint specifications and color charts for paint color selection.
 - 10. Install roof gutters and downspouts. Gutters shall be the same color as the roof (red) and downspouts shall match the column color (white). Downspouts shall discharge into the existing drain line. Contractor shall submit drainage design to the COR for approval prior to construction.
 - 11. Submit manufactures literature on all new materials being installed.

Approved Material List (or equal):

- 1. Pre-engineered, pre-manufactured shade structure as manufactured by Classic Recreation Systems, Inc., Sierra or Dugout Model, shed roof style shelter.
 - a. Size: 33 feet wide by 15 feet deep
 - b. HR-36 metal roof with 1.6:12 roof pitch; roof color to match existing San Francisco National Cemetery buildings with red tile roofs.
 - c. Eave height:
 - i. 8' - 6" at rear of building
 - ii. 10' - 6" at front of building
 - d. 24 Ga. trim fascia
 - e. 6 column design; columns located at outside perimeter of building with minimal overhang.
 - f. Metal siding on three (3) sides of the storage shed shall be installed on tubular metal framing in accordance with the manufacturer's specifications. Siding color shall be white in color and installed with vertical orientation of the same material used on the roof.
 - g. TGIC poly powder coat with zinc rich primer
 - h. Matching full fascia roof gutter and downspout.

GENERAL REQUIREMENT

I. General Notes

SFNC Storage Shed Replacement

1. Prior to submission of any bid, the Contractor shall perform a thorough field survey of the existing site conditions and features. Verify at project site the exact size, clearances of all existing services being relocated, extended, connected to or removed. Any site conditions which may cause significant deviation from the site plan shall be brought to the attention of the Contracting Officer or his/her Representative (COR) for clarification prior to submission of the bid. Verify dimensions of all owner furnished and installed equipment to insure proper coordination with construction. Contractor shall bear all costs for relocation of existing utilities from failure to advise of conflict in writing prior to submission of any bid, and/or from failure to properly coordinate installations of system.
2. All utilities required for the continuous operation of all existing facilities must be maintained in service at all times except as required for new system connection.
3. Coordinate and resolve all details of the shutdown for the specific utilities to be shutdown, then submit to Cemetery Director for acceptance a request, 2 weeks in advance of proposed shutdown. When option exists, implement options to minimize interruption of service to the facilities.
4. Contractor shall coordinate with the Cemetery Director to locate the construction fencing, temporary portable potties, material storage containers, etc. Public access to the National Cemetery shall not be impaired.
5. The Contractor shall assume sole responsibility for safety of all persons on or about the construction site, in accordance with applicable laws and codes. Guard all hazards in accordance with the safety provisions of the latest manual of accident prevention published by the Associated General Contractors of America and OSHA. Fence the construction area as necessary to prevent public access to the work site.
6. The Contractor shall guarantee that all work done under this contract will be free from faulty materials or workmanship and hereby agrees to repair or replace without cost to the VA and to his/her satisfaction all defects or imperfection appearing in said work within a period of one year after the date of final acceptance by the VA of all work done under this contract.
7. Matters related to safety, and any actions of the Contractor, shall meet all safety requirements of San Francisco National Cemetery Safety Officer, Department of Veterans Affairs, OSHA, and the State. It is incumbent upon the Contractor to be familiar with these requirements. "Safety" shall also include the Contractor having a safety representative who maintains regular and routine contact with the Safety Officer at SFNC. Contractor shall provide training of the contractor's and subcontractor's workers as necessary to meet these requirements.
8. Repair and replace any existing structure to existing condition when altered or damaged by the construction.
9. Completion Time: One hundred and fifty (150) calendar days from date of issuance of Notice to Proceed (NTP).

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